

Title (en)

STEAM-EXPLOSION EQUIPMENT AND METHOD FOR TREATMENT OF ORGANIC MATERIAL

Title (de)

DAMPFEXPLOSIONSANLAGE UND VERFAHREN ZUR BEHANDLUNG VON ORGANISCHEM MATERIAL

Title (fr)

ÉQUIPEMENT DE VAPOCRAQUAGE ET PROCÉDÉ DE TRAITEMENT DE MATIÈRE ORGANIQUE

Publication

EP 3942106 A1 20220126 (EN)

Application

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Priority

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Abstract (en)

[origin: WO2020188606A1] A continuous-flow steam explosion reactor for pretreatment of organic material for further processing to value-added products is provided. The reactor comprises a loading section, a high-pressure retention section with an adjustable-speed conveyor, a pressure relief section and a discharge section. The reactor comprises means for providing steam into at least said high-pressure retention section and means for providing pressurized gas (e.g. air) to further boost pressure. The loading section is suitably configured to transfer material from ambient pressure to the high-pressure retention section while retaining high pressure and temperature in the high-pressure retention section, and the pressure relief section configured to transfer material from the high-pressure retention section to a discharge section while retaining high pressure in the high-pressure retention section. The pressure relief section is configured to release material with a drop in pressure to said discharge section while retaining high pressure in the high-pressure retention section.

IPC 8 full level

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